

Improved Mass Spectrometer

Completed Technology Project (2012 - 2013)



Project Introduction

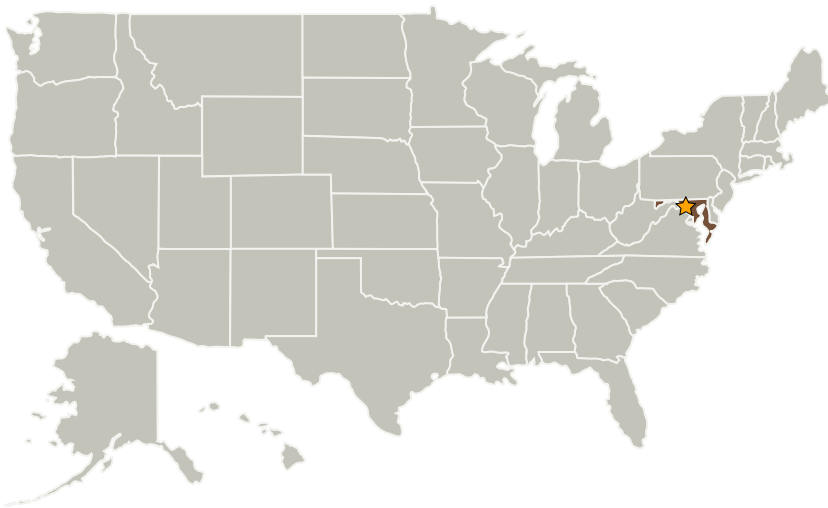
The Improved Mass Spectrometer project will take important steps toward a state-of-the-art mass spectrometer for making measurements in complex environments in the solar system using revolutionary innovation for future missions.

The Improved Mass Spectrometer project will develop system requirements and analyze the path to space qualification. The results of this project will provide substantially improved analytical capabilities for in situ analysis for future missions.

Anticipated Benefits

N/A

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Goddard Space Flight Center (GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland

Primary U.S. Work Locations

Maryland



Improved Mass Spectrometer

Table of Contents

Project Introduction	1
Anticipated Benefits	1
Primary U.S. Work Locations and Key Partners	1
Organizational Responsibility	1
Project Website:	2
Project Management	2
Technology Maturity (TRL)	2
Technology Areas	2

Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Center Independent Research & Development: GSFC IRAD

Improved Mass Spectrometer

Completed Technology Project (2012 - 2013)



Project Website:

<http://sciences.gsfc.nasa.gov/sed/>

Project Management

Program Manager:

Peter M Hughes

Project Manager:

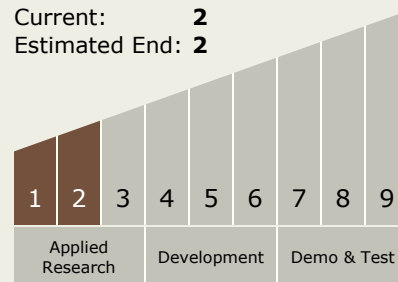
Brook Lakew

Principal Investigator:

Paul Mahaffy

Technology Maturity (TRL)

Start: **1**
Current: **2**
Estimated End: **2**



Technology Areas

Primary:

- TX08 Sensors and Instruments
 - └ TX08.3 In-Situ Instruments and Sensors
 - └ TX08.3.2 Atomic and Molecular Species Assessment